## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1-8. (Cancelled)
- (Currently Amended) A method of <u>treating stimulating the perfusion of</u> ischemic tissues, comprising administering <u>activated</u> Factor XIII <u>and thereby stimulating</u> the perfusion of ischemic tissues.
- (Previously Presented) The method of claim 9, wherein the Factor XIII is administered by topical administration.
- (Previously Presented) The method of claim 9, wherein the Factor XIII is activated in vitro or in vivo.
- (Previously Presented) The method of claim 11, wherein the Factor XIII is administered by injection.
- (Previously Presented) The method of claim 11, wherein the Factor XIII is administered by topical application.
- 14. (Currently Amended) A method of <u>treating stimulating the perfusion of</u> ischemic tissues by the proliferation of new blood vessels, comprising administering <u>activated</u> Factor XIII <u>and thereby stimulating the proliferation of new blood vessels in ischemic tissues.</u>
- 15. (Previously Presented) The method of claim 14, wherein the Factor XIII is administered by topical application.
- (Previously Presented) The method of claim 14, wherein the Factor XIII is activated in vitro or in vivo.

- (Previously Presented) The method of claim 16, wherein the Factor XIII is administered by injection.
- (Previously Presented) The method of claim 16, wherein the Factor XIII is administered by topical application.
- 19. (Previously Presented) The method of claim 12, wherein the Factor XIII is administered to treat a myocardial infarction.
- (Previously Presented) The method of claim 17, wherein the Factor XIII is administered to treat a myocardial infarction.
- (Previously Presented) The method of claim 12, wherein the Factor XIII is administered to treat an ischemic stroke or transient ischemic attack.
- (Previously Presented) The method of claim 17, wherein the Factor XIII is administered to treat an ischemic stroke or transient ischemic attack.
- 23. (Previously Presented) The method of claim 12, wherein the Factor XIII is administered to treat vascular or veno-occlusive diseases or obstructions of the microcirculation.
- 24. (Previously Presented) The method of claim 17, wherein the Factor XIII is administered to treat vascular or veno-occlusive diseases or obstructions of the microcirculation.